

SPECIAL PROFIBUS 634 UL, UL approval, for cable tracks



ELETTROTEK KABEL® SPECIAL PROFIBUS 634 UL

Construction:

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| CONDUCTOR: | 0,34 mm²: FLEXIBLE RED COPPER CONDUCTOR, 19 x 0,16 mm - 22/19 AWG ACC. TO DIN VDE 0812 0,75 mm²: FLEXIBLE RED COPPER CONDUCTOR CL. 6, ACC. TO IEC 60228, DIN VDE 0295 42 x 0,15 mm - AWG 19/42 |
| INSULATION: | 0,34 mm²: SPECIAL PE COMPOUND 0,75 mm²: SPECIAL PP COMPOUND |
| COLOUR CORES: | 0,34 mm²: RED, GREEN 0,75 mm²: BROWN, LIGHT BLUE AND GREEN-YELLOW |
| STRANDING: | 0,34 mm²: IN PAIR + PE FILLERS 0,75 mm²: IN LAYERS + FILLERS |
| WRAPPING: | 0,34 mm²: NON-WOVEN TAPE |
| SCREEN: | 0,34 mm²: ALUMINIUM TAPE + PETP FOIL AND TINNED COPPER BRAID or TINNED COPPER BRAID + ALUMINIZED NON-WOVEN TAPE |
| OVERALL STRANDING 2x0,34+3x0,75 mm²: | POWER CORES IN LAYER AROUND PROFIBUS UNIT + FILLERS (IF NECESSARY) |
| OVERALL WRAPPING: | NON-WOVEN TAPE |
| OUTER SHEATH: | VIOLET (RAL 4001 or 4005), PUR COMPOUND |

Technical data:

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|--------------------------------------|-------------------------|
| VOLTAGE UL: | 300 V |
| TEST VOLTAGE: | 2 kV |
| TEMPERATURE RANGE: | UL: UP TO + 80°C |
| FIXED LAYING: | - 40°C UP TO + 70°C |
| FLEXIBLE INSTALLATION: | - 20°C UP TO + 60°C |
| MIN. BENDING RADIUS: | |
| FIXED LAYING: | 6 x D |
| FLEXIBLE INSTALLATION: | 12 x D |
| MAX SPEED (MAIN APPLICATION): | 180 mt/min |

Resistance:

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| | SELF-EXTINGUISHING AND FLAME RETARDANT ACC. TO: UL 1581 § 1090, § 1100 (FT2) IEC 60332-1-2 |
| | OIL RESISTANCE ACC. TO: IEC 60811-2-1 ASTM OIL 1 |
| | HALOGEN-FREE ACC. TO: IEC 60754-1 |
| | UV RESISTANCE ACC. TO: UL1581 §1200 STD. |

Features:

cULus AWM STYLE 10493 - 20233 80°C 300 V
 or cULus AWM STYLE 10578 - 20978 80°C 300 V
 MUD, OZONE, MICROBE RESISTANT
 GOOD HYDROCARBONS RESISTANT
PROFIBUS DP TYPE A
 ROHS AND CE APPROVAL



Electrical and Transmission proprieties at 20°C PROFIBUS UL

Profinet bus

| | |
|---|--------------------|
| MAX. DC COND. RESISTANCE | 59,4 Ω x km |
| MAX. CAPACITANCE at 800 Hz | 30 nF/km |
| IMPEDANCE at 800 1-20 MHz | 150 Ω (± 10%) |
| MAX. ATTENUATION at 9,6 KHz | 3 dB/km |
| MAX. ATTENUATION at 38,4 KHz | 5 dB/km |
| MAX. ATTENUATION at 200 KHz | 6 dB/km |
| MAX. ATTENUATION at 4 MHz | 2,3 dB/km |
| MAX. ATTENUATION at 16 MHz | 44 dB/km |
| MAX. ATTENUATION at 20 MHz | 49 dB/km |
| DIELECTRIC STRENGTH (COND/COND/ SHIELD) | 1,5 kV AC x 1 min. |
| MIN. INSULATION RESISTANCE | 5 GΩ x km |
| TRANSFER IMPEDANCE at 10 MHz | 20 MΩ/m |

Power conductors

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|---------------------------------|---------------------|
| MAX. DC COND. RESISTANCE | 26 Ω x km |
| DIELECTRIC STRENGTH (COND/COND) | 2,5 kV AC x 10 min. |
| MIN. INSULATION RESISTANCE | 5 GΩ x km |

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| Part no. | No. of cores x cross section n x mm ² | Outer-Ø ca. mm ± 10% | Copper weight kg/km | Cable weight approx. kg/km | AWG no. *) |
|----------------|--|----------------------------|---------------------------|----------------------------------|---------------|
| 39180CVB020M03 | 2 x 0,34 | 8,1 | 30,9 | 74 | 22 |
| 39180CV403BM07 | 2 x 0,34+3 x 0,75 | 10,4 | 45 | 90 | 22/19 |

Other dimension and colours available on request.